

=====

Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Tue Jun 05 17:50:16 EDT 2007

=====

Application No: 10582918

Version No: 1.1

Input Set:

Output Set:

Started: 2007-06-05 17:50:06.738

Finished: 2007-06-05 17:50:08.539

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 801 ms

Total Warnings: 35

Total Errors: 0

No. of SeqIDs Defined: 42

Actual SeqID Count: 42

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)

**Input Set:**

**Output Set:**

**Started:** 2007-06-05 17:50:06.738  
**Finished:** 2007-06-05 17:50:08.539  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 801 ms  
**Total Warnings:** 35  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 42  
**Actual SeqID Count:** 42

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> KROGER, BURKHARD  
ZELDER, OSKAR  
KLOPPROGGE, CORINNA  
SCHRODER, HARTWIG  
HAEFNER, STEFAN

<120> P EF-TU EXPRESSION UNITS

<130> BGI-186US

<140> 10/582,918

<141> 2006-06-14

<150> PCT/EP04/014266

<151> 2004-12-15

<150> DE 10359594.5

<151> 2003-12-18

<160> 42

<170> PatentIn Ver. 3.3

<210> 1

<211> 186

<212> DNA

<213> Corynebacterium glutamicum

<400> 1

```
ggccggttacc ctgcgaatgt ccacagggta gctggtagtt tgaaaatcaa cgccgttgcc 60
cttaggattc agtaactggc acatTTTgta atgcgctaga tctgtgtgct cagtcttcca 120
ggctgcttat cacagtga aa gcaaaaccaa ttcgtggctg cgaaagtcgt agccaccacg 180
aagtc 186
```

<210> 2

<211> 199

<212> DNA

<213> Corynebacterium glutamicum

<400> 2

```
ggccggttacc ctgcgaatgt ccacagggta gctggtagtt tgaaaatcaa cgccgttgcc 60
cttaggattc agtaactggc acatTTTgta atgcgctaga tctgtgtgct cagtcttcca 120
ggctgcttat cacagtga aa gcaaaaccaa ttcgtggctg cgaaagtcgt agccaccacg 180
aagtcagga ggacataca 199
```

<210> 3

<211> 1365

<212> DNA

<213> Corynebacterium glutamicum

<400> 3

```
atgaatgatg agaatttca aagctccaac tatcagccat tcccgagttt tgacgattgg 60
aaacagatcg aggtgtcgct cttagatgtc atcgaaatcct cagccattt ttctgatttg 120
```

```

aaagatagca ctgatcggtc tgcgttagat gctgcgctag agagagcaaa aagagctgcc 180
gcagttgata ccaatgccat agaaggaatc ttccaaactg atcgcggttt taccataca 240
gttgcaacgc aggtaggggc ttgggagcaa caaatggcga tgaaaggcaa acatgttaag 300
cctgcgtttg acgatactct agaaggcttt gagtatgttc tcgatgcagt aactggtaga 360
actccaatct ctacagcaatg gattagaaat ttgcacgcgc tcattctgcg gagccaagaa 420
agccacgagg tttttacagc cgttggagtc caaaatcagg cgcttcagaa aggcgagtat 480
aaaactcagc caaatagtcc acagcgctca gatggatctg tacatgcata cgccccagtt 540
gaagatactc ctgctgaaat ggctagattt atttcagaac ttgaatctaa ggaattctta 600
gcagccgaga aggttattca agctgcctat gccactatg ctttcgtatg tattcatcct 660
tttgagatg ggaatggacg agttgcacga gccttggtta gtgtttttct atacaaagat 720
cctgggtgtc ctctcgtaat ctaccaagat caacgcagag attacatcca tgctctagaa 780
gcagcggaca agaataaccc gctcctgctg attagattct ttgctgaacg agtgaccgat 840
actattaact ctattatcgt tgatctcact acccgcgctg cgggtaaatac tggttcggct 900
aagctttcgg atgcgctacg cccactcgc gtattaccag aattacatga tgctgcacat 960
aggctccaag aaagtttatt tacagaaatc cgatctcgat tggatgaaga aggaaaaagg 1020
aatgggttg agtttctact tcaacggatt tttatcgggt cccattcaa tctgccagag 1080
ggctataacg ctttcctga tagctattgt ctgaccttag ctttcaatag caactctcca 1140
aaacaaatct tccaccgct atccatagta atagcagctc gagatgggaa aagagcgagc 1200
agcgacctcg tggcagctac ttctattgga tacaactttc acgcttacgg acgtgaagtc 1260
gagcctgttg ttactgaaag ctttcgagaa cgtgtgaaaa tttacgccga cgggattgta 1320
gatcacttct taaccgaact ggctaaaaag tttcaacaga attaa 1365

```

<210> 4

<211> 454

<212> PRT

<213> *Corynebacterium glutamicum*

<400> 4

```

Met Asn Asp Glu Asn Ile Gln Ser Ser Asn Tyr Gln Pro Phe Pro Ser
  1              5              10              15

```

```

Phe Asp Asp Trp Lys Gln Ile Glu Val Ser Leu Leu Asp Val Ile Glu
      20              25              30

```

```

Ser Ser Arg His Phe Ser Asp Leu Lys Asp Ser Thr Asp Arg Ser Ala
      35              40              45

```

```

Leu Asp Ala Ala Leu Glu Arg Ala Lys Arg Ala Ala Ala Val Asp Thr
      50              55              60

```

```

Asn Ala Ile Glu Gly Ile Phe Gln Thr Asp Arg Gly Phe Thr His Thr
      65              70              75              80

```

```

Val Ala Thr Gln Val Gly Ala Trp Glu Gln Gln Met Ala Met Lys Gly
      85              90              95

```

```

Lys His Val Lys Pro Ala Phe Asp Asp Thr Leu Glu Gly Phe Glu Tyr
      100             105             110

```

```

Val Leu Asp Ala Val Thr Gly Arg Thr Pro Ile Ser Gln Gln Trp Ile
      115             120             125

```

```

Arg Asn Leu His Ala Val Ile Leu Arg Ser Gln Glu Ser His Glu Val
      130             135             140

```

```

Phe Thr Ala Val Gly Val Gln Asn Gln Ala Leu Gln Lys Gly Glu Tyr

```

145		150		155		160
Lys Thr Gln Pro Asn Ser Pro Gln Arg Ser Asp Gly Ser Val His Ala						
	165		170		175	
Tyr Ala Pro Val Glu Asp Thr Pro Ala Glu Met Ala Arg Phe Ile Ser						
	180		185		190	
Glu Leu Glu Ser Lys Glu Phe Leu Ala Ala Glu Lys Val Ile Gln Ala						
	195		200		205	
Ala Tyr Ala His Tyr Ala Phe Val Cys Ile His Pro Phe Ala Asp Gly						
	210		215		220	
Asn Gly Arg Val Ala Arg Ala Leu Ala Ser Val Phe Leu Tyr Lys Asp						
225		230		235		240
Pro Gly Val Pro Leu Val Ile Tyr Gln Asp Gln Arg Arg Asp Tyr Ile						
	245		250		255	
His Ala Leu Glu Ala Ala Asp Lys Asn Asn Pro Leu Leu Leu Ile Arg						
	260		265		270	
Phe Phe Ala Glu Arg Val Thr Asp Thr Ile Asn Ser Ile Ile Val Asp						
	275		280		285	
Leu Thr Thr Pro Ile Ala Gly Lys Ser Gly Ser Ala Lys Leu Ser Asp						
	290		295		300	
Ala Leu Arg Pro Thr Arg Val Leu Pro Glu Leu His Asp Ala Ala His						
305		310		315		320
Arg Leu Gln Glu Ser Leu Phe Thr Glu Ile Arg Ser Arg Leu Asp Glu						
	325		330		335	
Glu Gly Lys Arg Asn Gly Leu Glu Phe Leu Leu Gln Arg Ile Phe Ile						
	340		345		350	
Gly Ser Pro Phe Asn Leu Pro Glu Gly Tyr Asn Ala Phe Pro Asp Ser						
	355		360		365	
Tyr Cys Leu Thr Leu Ala Phe Asn Ser Asn Ser Pro Lys Gln Ile Phe						
	370		375		380	
His Pro Leu Ser Ile Val Ile Ala Ala Arg Asp Gly Lys Arg Ala Ser						
385		390		395		400
Ser Asp Leu Val Ala Ala Thr Ser Ile Gly Tyr Asn Phe His Ala Tyr						
	405		410		415	
Gly Arg Glu Val Glu Pro Val Val Thr Glu Ser Phe Arg Glu Arg Val						
	420		425		430	
Lys Ile Tyr Ala Asp Gly Ile Val Asp His Phe Leu Thr Glu Leu Ala						
	435		440		445	
Lys Lys Phe Gln Gln Asn						

<210> 5

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

<400> 5

cccgggatcc gctagcggcg cgccggccgg cccggtgtga aataccgcac ag 52

<210> 6

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

<400> 6

tctagactcg agcggccgcg gccggccttt aaattgaaga cgaaagggcc tcg 53

<210> 7

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

<400> 7

gagatctaga cccggggatc cgctagcggg ctgctaaagg aagcgga 47

<210> 8

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

<400> 8

gagaggcgcg ccgctagcgt gggcgaagaa ctccagca 38

<210> 9

<211> 34

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic primer

<400> 9  
 gagagggcgg ccgcgcaaag tcccgttcg tgaa 34

<210> 10  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic primer

<400> 10  
 gagagggcgg ccgctcaagt cggtaagcc acgc 34

<210> 11  
 <211> 140  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 11  
 tcgaatttaa atctcgagag gcttgacgtc gggcccggtta ccacgcgtca tatgactagt 60  
 tcggacctag ggatatactc gacatcgatg ctcttctgcg ttaattaaca attgggatcc 120  
 tctagaccgc ggatttaa 140

<210> 12  
 <211> 140  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 12  
 gatcatttaa atcccgggtc tagaggatcc caattgttaa ttaacgcaga agagcatcga 60  
 tgtcgacgat atccctaggt ccgaactagt catatgacgc gtggtaccgc gcccgacgtc 120  
 aggcctctcg agatttaa 140

<210> 13  
 <211> 5091  
 <212> DNA



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
plasmid

<400> 13

```
tgcattttaa tctcgagagg cctgacgtcg ggcccggtag cacgcgtcat atgactagtt 60
cggacctagg gatatcgctg acatcgatgc tcttctgcgt taattaacaa ttgggatcct 120
ctagaccggy gattttaaatt gctagcgggc tgctaaagga agcggaaacac gtagaaaagg 180
agtccgcaga aacgggtgctg accccgggatg aatgtcagct actgggctat ctggacaagg 240
gaaaacgcaa gcgcaaagag aaagcaggta gcttgacgtg ggcttacatg gcgatagcta 300
gactgggcgg ttttatggac agcaagcgaa ccggaattgc cagctggggc gccctctggt 360
aaggttggga agccctgcaa agtaaaactg atggctttct tgccgccaag gatctgatgg 420
cgcaggggat caagatctga tcaagagaca ggatgaggat cgtttcgcgt gattgaacaa 480
gatggattgc acgcaggttc tccggccgct tgggtggaga ggctattcgg ctatgactgg 540
gcacaacaga caatcggtg ctctgatgcc gccgtgttcc ggctgtcagc gcaggggcgc 600
ccggttcttt ttgtcaagac cgacctgtcc ggtgccctga atgaactgca ggacgaggca 660
gcgcggctat cgtggctggc cacgacgggc gtcccttgcg cagctgtgct cgacgtgtgc 720
actgaagcgg gaagggactg gctgctattg ggcgaaagtgc cggggcagga tctcctgtca 780
tctcaccttg ctctgcccga gaaagtatcc atcatggctg atgcaatgcg gcggctgcat 840
acgcttgatc cggctacctg cccattcgac caccaagcga aacatcgcat cgagcgagca 900
cgtactcgga tgggaagccgg tcttgctgat caggatgatc tggacgaaga gcatcagggg 960
ctcgcgccag ccgaactgtt cgcacggctc aaggcgcgca tgcccagcgg cgaggatctc 1020
gtcgtgacct atggcgatgc ctgcttgccg aatatcatgg tggaaaatgg ccgcttttct 1080
ggattcatcg actgtggccg gctgggtgtg gcggaccgct atcaggacat agcgttggct 1140
accgctgata ttgctgaaga gcttgccggc gaatgggctg accgcttcct cgtgctttac 1200
ggtatcgccg ctcccgattc gcagcgcac gccttctatc gccttcttga cgagttcttc 1260
tgagcgggac tctgggggtc gaaatgaccg accaagcgac gcccaacctg ccatcacgag 1320
atttcgattc caccgcgcgc ttctatgaaa ggttgggctt cggaatcgtt ttccgggacg 1380
ccggctggat gatcctccag cgcggggatc tcatgctgga gttcttcgcc cacgctagcg 1440
gcgcgcgggc cggcccggtg tgaaataaccg cacagatgcg taaggagaaa ataccgcatc 1500
aggcgtcttt ccgcttcctc gctcaactgac tcgctgcgct cggtcgttcg gctgcggcga 1560
gcggtatcag ctcaactcaa ggccgtaata cggttatcca cagaatcagg ggataacgca 1620
ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga accgtaaaaa ggccgcgttg 1680
ctggcgtttt tccataggct ccgccccctc gacgagcatc aaaaaaatcg acgctcaagt 1740
cagaggtggc gaaacccgac aggactataa agataccagg cgtttccccc tggaaagctc 1800
ctcgtgcgct ctctgttcc gaccctgccg ctaccggat acctgtccgc ctttctccct 1860
tcgggaagcg tggcgctttc tcatagctca cgtgtagggt atctcagttc ggtgtaggtc 1920
gttcgctcca agctgggctg tgtgcacgaa cccccgttc agcccgaccg ctgcgcctta 1980
tccggttaact atcgtcttga gtccaacccg gtaagacacg acttatcgcc actggcagca 2040
gccactggta acaggattag cagagcgagg tatgtaggcg gtgctacaga gttcttgaag 2100
tggtggccta actacggcta cactagaagg acagtatttg gtatctgcgc tctgctgaag 2160
ccagttacct tcggaaaaag agttggtagc tcttgatccg gcaaaaaaac caccgctggt 2220
agcggtggtt tttttgtttg caagcagcag attacgcgca gaaaaaaagg atctcaagaa 2280
gatcctttga tcttttctac ggggtctgac gctcagtggg acgaaaactc acgttaaggg 2340
attttggtca tgagattatc aaaaaggatc ttacctaga tcctttttaa ggccggccgc 2400
ggccgcgcaa agtcccgtt cgtgaaaatt ttcgtgcgcg gtgattttcc gccaaaaact 2460
ttaacgaacg ttcgttataa tgggtgctat accttcacga cgaagtacta aaattggccc 2520
gaatcatcag ctatggatct ctctgatgtc gcgctggagt ccgacgcgct cgatgctgcc 2580
gtcgatttaa aaacggtgat cggatttttc cgagctctcg atacgacgga cgcgccagca 2640
tcacgagact gggccagtgc cgcgagcgac ctagaaactc tcgtggcgga tcttgaggag 2700
ctggctgacg agctgcgtgc tcggccagcg ccaggaggac gcacagtagt ggaggatgca 2760
atcagttgcy cctactgcgg tggcctgatt cttcccggc ctgaccgcg aggacggcgc 2820
gcaaaatatt gctcagatgc gtgtcgtgcc gcagccagcc gcgagcgcgc caacaaacgc 2880
cacgccgagg agctggaggc ggctaggctc caaatggcgc tggaaagtgc tccccgagc 2940
gaaattttg ccatggtcgt cacagagctg gaagcggcag cgagaattat cgcgatcgtg 3000
```

gcggtgcccc caggcatgac aaacatcgta aatgccgcgt ttcgtgtgcc gtggccgccc 3060  
 aggacgtgtc agcgccgcca ccacctgcac cgaatcggca gcagcgtcgc gcgtcgaaaa 3120  
 agcgcacagg cggaagaag cgataagctg cacgaatacc tgaaaaatgt tgaacgcccc 3180  
 gtgagcggta actcacaggg cgtcggctaa cccccagtcc aaacctggga gaaagcgctc 3240  
 aaaaatgact ctagcggatt cacgagacat tgacacaccg gcctggaaat tttccgctga 3300  
 tctgttcgac acccatcccc agctcgcgct gcgatcacgt ggctggacga gcgaagaccg 3360  
 ccggaattc ctcgctcacc tgggcagaga aaatttccag ggcagcaaga cccgcgactt 3420  
 cgccagcgtc tggatcaaag acccggacac ggagaaacac agccgaagt ataccgagtt 3480  
 ggttcaaaaat cgcttgcccc gtgccagtat gttgctctga cgcacgcgca gcacgcagcc 3540  
 gtgcttgtcc tggacattga tgtgccgagc caccaggccg gcgggaaaat cgagcacgta 3600  
 aaccccagag tctacgcgat tttggagcgc tgggcacgcc tggaaaaagc gccagcttgg 3660  
 atcggcgtga atccactgag cgggaaatgc cagctcatct ggctcattga tccggtgtat 3720  
 gccgcagcag gcatgagcag cccgaatatg cgctgctgg ctgcaacgac cgaggaaatg 3780  
 acccgcgttt tggcgctga ccaggctttt tcacataggc tgagccgtgg cactgcact 3840  
 ctccgacgat ccagccgta ccgctggcat gccagcaca atcgcgtgga tcgcctagct 3900  
 gatcttatgg aggttgctcg catgatctca ggcacagaaa aacctaaaaa acgctatgag 3960  
 caggagtttt ctagcggacg ggcacgtatc gaagcggcaa gaaaagccac tgcggaagca 4020  
 aaagcacttg ccacgcttga agcaagcctg ccgagcgcg ctgaagcgtc tggagagctg 4080  
 atcgacggcg tccgtgtcct ctggactgct ccaggcgctg ccgcccgta tgagacggct 4140  
 tttcgccacg ctttgactgt gggataccag ttaaaagcgg ctggtgagcg cctaaaagac 4200  
 accaagggtc atcgagccta cgagcgtgcc tacaccgtcg ctcaggcggc cggaggaggc 4260  
 cgtgagcctg atctgccgcc ggactgtgac cgccagacgg attggccgcg acgtgtgcgc 4320  
 ggctacgtcg ctaaaggcca gccagtcgtc cctgctcgtc agacagagac gcagagccag 4380  
 ccgaggcgaa aagctctggc cactatggga agacgtggcg gtaaaaaggc cgcagaacgc 4440  
 tggaaagacc caaacagtga gtacgcccg gcacagcgag aaaaactagc taagtccagt 4500  
 caacgacaag ctaggaaagc taaaggaaat cgcttgacca ttgcaggttg gtttatgact 4560  
 gttgagggag agactggctc gtggccgaca atcaatgaag ctatgtctga atttagcgtg 4620  
 tcacgtcaga ccgtgaatag agcacttaag gtctgcgggc attgaacttc caccaggacg 4680  
 ccgaaagctt ccagtaaat gtgccatctc gtaggcagaa aacggttccc ccgtagggtc 4740  
 tctctcttgg cctcctttct aggtcgggct gattgctctt gaagctctct aggggggctc 4800  
 acaccatagg cagataacgt tccccaccgg ctcgcctcgt aagcgcacaa ggactgctcc 4860  
 caaagatctt caaagccact gccgcgactg ccttcgcgaa gccttgcccc gcggaaattt 4920  
 cctccaccga gttcgtgcac acccctatgc caagcttctt tcaccctaaa ttcgagagat 4980  
 tggattctta ccgtggaaat tcttcgcaaa aatcgteccc tgatcgccct tgcgacgttg 5040  
 gcgtcgggtgc cgctgggtgc gcttggcttg accgacttga tcagcggccg c 5091

<210> 14

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 14

gcgcggtacc tagactcacc ccagtgtc

28

<210> 15

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

primer

<400> 15

ctctactagt ttagatgtag aactcgatgt

30

<210> 16

<211> 6349

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
plasmid

<400> 16

tgcattttaa tctcgagagg cctgacgtcg ggcccggtag ctagactcac cccagtgttt 60  
aaagcgctgg gtttttcttt ttcagactcg tgagaatgca aactagacta gacagagctg 120  
tccatataca ctggacgaag ttttagtctt gtccaccag aacaggcggg tattttcatg 180  
cccaccctcg cgccttcagg tcaacttgaa atccaagcga tcggtgatgt ctccaccgaa 240  
gccggagcaa tcattacaaa cgctgaaatc gcctatcacc gctgggggtga ataccgcgta 300  
gataaagaag gacgcagcaa tgtcgttctc atcgaaacag ccctcactgg agattccaac 360  
gcagccgatt ggtgggctga cttgctcggg cccggcaaaag ccatcaaac tgatatttac 420  
tgcgatgatc gtaccaacgt catcggtggg tgcaacgggt ccaccggacc tggctccatg 480  
catccagatg gaaatttctg gggtaatcgc ttccccgcca cgtccattcg tgatcaggta 540  
aacgccgaaa aacaattcct cgacgcactc ggcatcacca cggtcgccgc agtacttggg 600  
gggtcccatg gtggtgcccc caccctagag tgggccgcaa tgtaccaga aactgttggc 660  
gcagctgctg ttcttgcagt ttctgcacgc gccagcgctt ggcaaatcgg cattcaatcc 720  
gccc aaatta aggcgattga aaacgaccac cactggcagc aaggcaacta ctacgaatcc 780  
ggctgcaacc cagccaccgg actcggcgcc gcccgacgca tcgcccacct cacctaccgt 840  
ggcgaactag aaatcgacga acgcttcggc accaaagccc aaaagaacga aaaccactc 900  
gggtccctacc gcaagcccga ccagcgcttc gccgtggaat cctacttggg ctaccaagca 960  
gacaagctag tacagcgttt cgacgcgggc tcctacgtct tgetcaccga cgccctcaac 1020  
cgccacgaca ttggtcgcga ccgcgagggc ctcaacaagg cactcgaatc catcaaagtt 1080  
ccagtccttg tcgcaggcgt agataccgat attttgtacc cctaccacca gcaagaacac 1140  
ctctccagaa acctgggaaa tctactggca atggcaaaaa tcgtatcccc tgtcggccac 1200  
gatgctttcc tcaccgaaag ccgccaaatg gatcgcatcg tgaggaaact cttcagcctc 1260  
atctccccag acgaagacaa cccttcgacc tacatcgagt tctacatcta aactagtctc 1320  
gacctaggga tatcgtcgac atcgatgctc ttctgcgtta attaacaatt gggatcctct 1380  
agaccgggga tttaaatcgc tagcgggctg ctaaagggaag cggaacacgt agaaagccag 1440  
tccgcagaaa cgggtgctgac c